

Applicants : Philip O. Livingston and Friedhelm Helling
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Filed : June 7, 1995
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In the claims

--53.

(New) A composition comprising a ganglioside conjugated through the ceramide portion of the ganglioside to Keyhole Limpet Hemocyanin or a derivative thereof and a carbohydrate derivable from the bark of a Quillaia saponaria Molina tree, the amounts of such conjugated ganglioside and such carbohydrate being effective to stimulate or enhance antibody production in a subject, and a pharmaceutically acceptable carrier.--

Sub F'

--54.

(New) The composition of claim 53, wherein the ganglioside is selected from the group consisting of GM2, GM3, GD2, GD3, GD3 lactone, O-Acetyl GD3 and GT3.--

--55.

(New) The composition of claim 54, wherein the ganglioside is GM2 or GD2.--

--56.

(New) The composition of claim 55, wherein the ganglioside is GM2.--

--57.

(New) The composition of claim 55, wherein the ganglioside is GD2.--

--58.

(New) The composition of claim 53, wherein the ganglioside is conjugated to Keyhole Limpet Hemocyanin.--

--59.

(New) The composition of claim 53, wherein the carbohydrate is QS-21.--

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- 60. (New) The composition of claim 53, wherein the amount of the conjugated ganglioside is an amount between about 1 μg and about 200 μg .--
- 61. (New) The composition of claim 60, wherein the amount of the conjugated ganglioside is an amount between about 10 μg and about 90 μg .--
- 62. (New) The composition of claim 61, wherein the amount of the conjugated ganglioside is an amount between about 35 μg and about 70 μg .--
- 63. (New) The composition of claim 53, wherein the amount of the carbohydrate is an amount between about 10 μg and about 100 μg .--
- 64. (New) The composition of claim 63, wherein the amount of the carbohydrate is about 100 μg .--
- 65. (New) The composition of claim 53, wherein the molar ratio of the ganglioside to the Keyhole Limpet Hemocyanin or a derivative thereof is between about 200 and about 1400.--
- 66. (New) A method of stimulating or enhancing antibody production in a subject which comprises administering to the subject an effective amount of a composition comprising a ganglioside conjugated through the ceramide portion of the ganglioside to Keyhole Limpet Hemocyanin or a derivative thereof and a carbohydrate derivable from the bark of a Quillaja saponaria Molina tree, the amounts of such conjugated ganglioside and such carbohydrate being

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effective to stimulate or enhance antibody production in a subject, and a pharmaceutically acceptable carrier.--

- Sub F2*
- C1 cont*
- 67. (New) A method of preventing or treating a cancer in a subject which comprises administering to the subject an effective cancer preventing or treating amount of the composition of claim 1---
- 68. (New) The method of claim 67, wherein the cancer is of epithelial origin.--
- 69. (New) The method of claim 67, wherein the cancer is of neuroectodermal origin.--
- 70. (New) The method of claim 69, wherein the cancer of neuroectodermal origin is a melanoma.--
- 71. (New) The method of claim 67, wherein the administering is effected at two or more sites.--
- 72. (New) The method of claim 71, wherein the administering is effected at three sites.--

REMARKS

Claims 1-4, 8-16, 18-20, and 44-52 are pending in this application. By this Amendment, applicants have canceled claims 1-4, 8-16, 18-20, and 44-52 without prejudice to the applicants' right to pursue the subject matter of these canceled claims in a continuation or divisional application. Applicants have added new claims 53-72. Support for new claim 53 may be found inter alia on page 11, lines 13-20, page 54, lines 12-14, page 65, lines 12-15, page 85, lines